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# I H C TITAN GASOLINE TRACTOR

Single Cylinder, 20 and 25-Horse Power



A 25-horse power I H C tractor pulling six 14-inch bottom plows. This tractor was working under favorable conditions in stubble ground

International Harvester Company of America  
(Incorporated)

Chicago

U S A

# I H C TITAN TRACTORS

## SINGLE CYLINDER, 20 AND 25-HORSE POWER

The principal difference between Titan and other I H C tractors is the live axle construction. All other I H C tractors have the stationary axle.

**Engine**—The engine is the regular single cylinder, 20 or 25-horse power, four-cycle, Famous mounting engine. For simplicity, durability, and accessibility, this engine can not be excelled. Each part possesses ample strength to meet every requirement. On the 25-horse power tractor the valves are mounted in the cylinder head in separate cages.

The cooling arrangement includes a special design of cooling tower and a plunger type circulating pump on the engine which pumps a continuous flow of water through the water jacket.

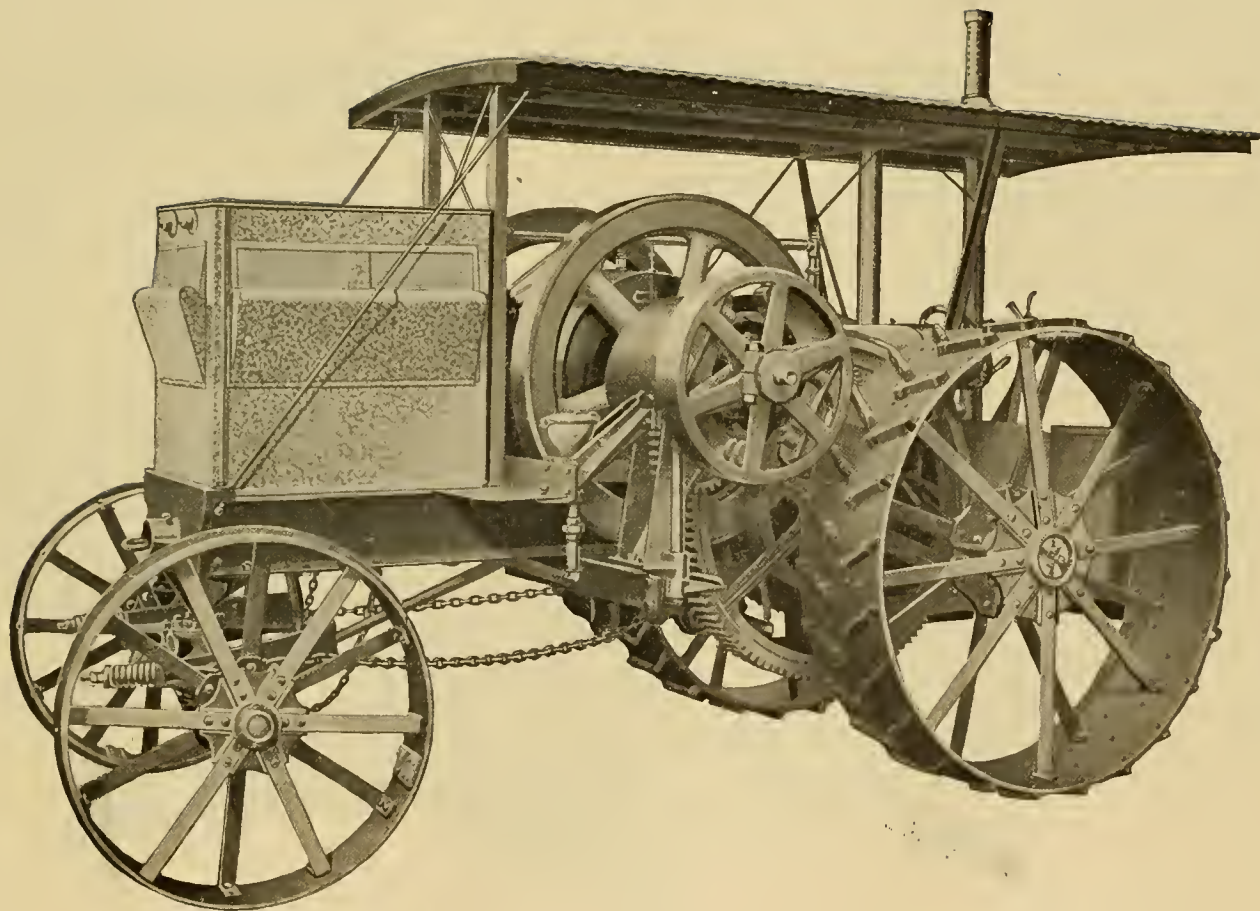
**Mounting**—The frame consists of 8-inch steel channels for 20-horse power and 10-inch steel channels for 25-horse power tractor. These channels are continuous from front to rear. The front axle is arched and strongly reinforced in the center. It is additionally reinforced by two heavy truss rods extending from hub to hub. Limit chains are provided so that the front wheels can not run into the truck when turning the tractor.

**Wheels**—The wheels have cast hubs and flat bar steel spokes which are riveted both to the tire and hubs. This style of wheel has proved very durable and will stand up to all strains. The face of the drive wheels on the 20-horse power is 20 inches in width, and on the 25-horse power, 22 inches in width. They are provided with heavy lugs.

**Gears**—Power is transmitted from the crank shaft through a pinion on the end of this shaft which meshes with the large gear on the countershaft. On the other end of the countershaft is a pinion which meshes with the large differential bull gear. This power transmission is exceptionally simple. The countershaft runs in two extra long bearings, extending through the large castings of the main frame. This provides a construction which holds the countershaft rigidly in position, so that there is no possibility of the gears getting out of alignment and cutting. All gears are shielded wherever necessary to insure the safety of the operator.

**Rear Axle**—The rear axle is of the live axle type,  $3\frac{3}{4}$  inches in diameter for 20-horse power, and 4 inches in diameter for 25-horse power, and runs in two extra long, babbitted bearings. These bearings are so designed that it is possible to take up wear in the bearings, and thus avoid wear in the hubs of the wheels.

**Friction Clutch**—Only one friction clutch is provided for throwing the gears into action. This friction clutch has two extra large shoes which furnish ample gripping surface. The clutch is operated by a lever and a connecting rod.



**I H C Titan tractor, 20 and 25-horse power—left hand side**



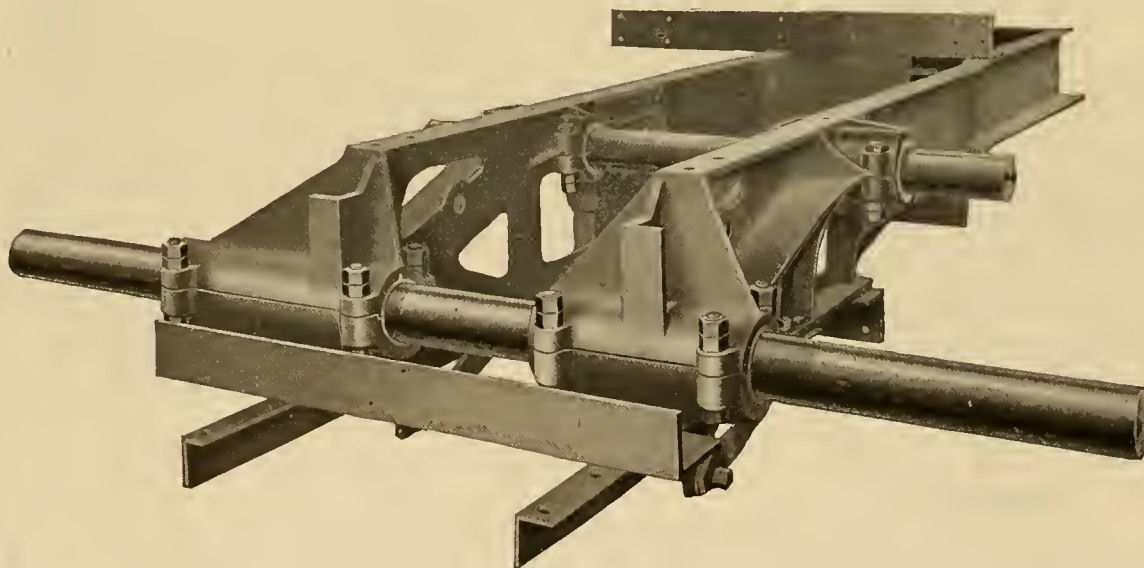
**Reverse**—The reverse is accomplished by means of sliding gears. This method of reversing is very positive; in fact, the action on the reverse is just as positive as it is on the forward.

**Oiling**—The Titan tractor is provided with a mechanical oiler, operated by the ignitor rod. This oiler oils the crank shaft, connecting rod, cylinder, differential gears, countershaft gears, and pinions. Grease cups on the countershaft and main axle bearings keep these parts well oiled. These grease cups are operated by handles which reach back to the platform.

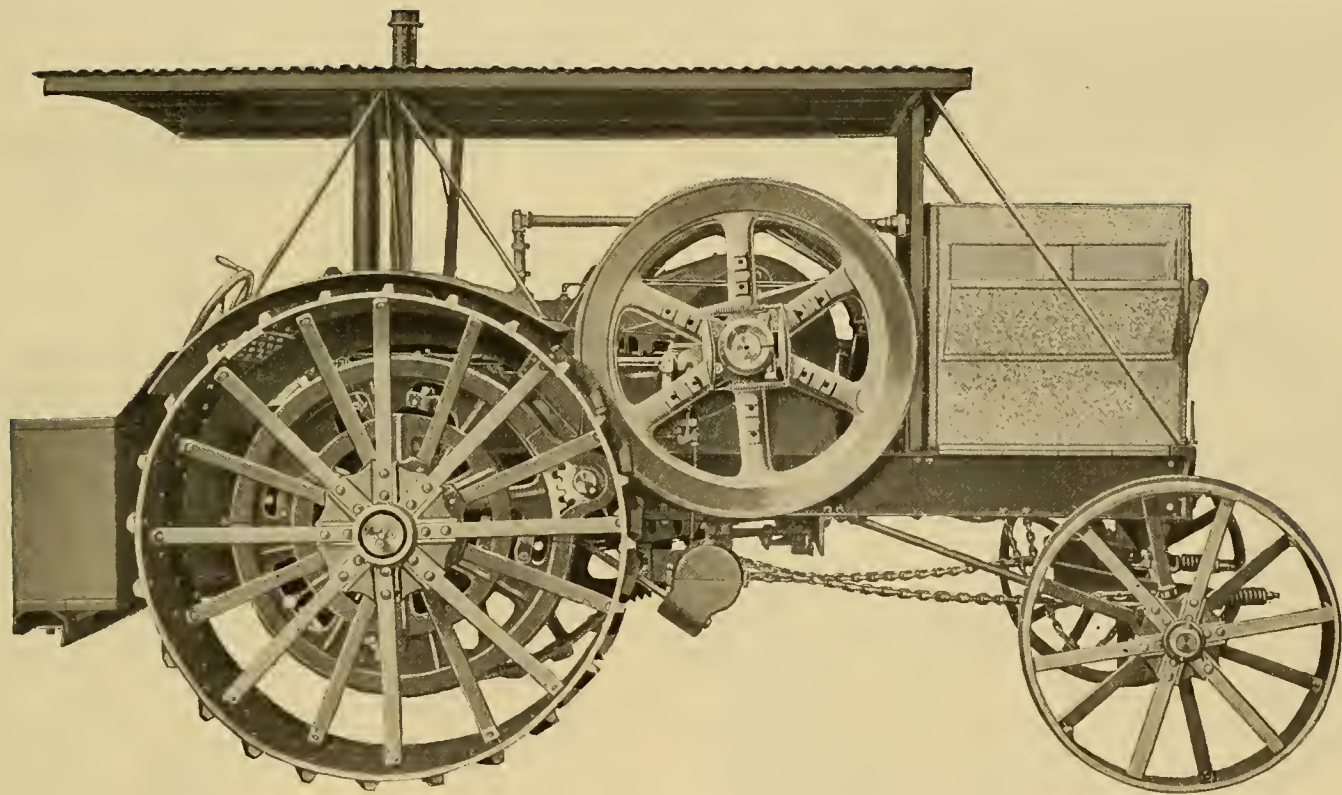
**Operating Levers**—There are two operating levers, both convenient to the driver—one for throwing the clutch in, and the other for the reverse. The steering wheel which controls the movement of the front axle by means of steering chains, is convenient to the right hand of the operator.

**Convenience and Accessibility**—This tractor is very convenient to operate. The platform is roomy and substantial. The tool and battery boxes are to the left, out of the way of the operator. The filling pipe is located on the left hand side of the engine toward the front, and is only waist high, so that the fuel tank may be easily filled.

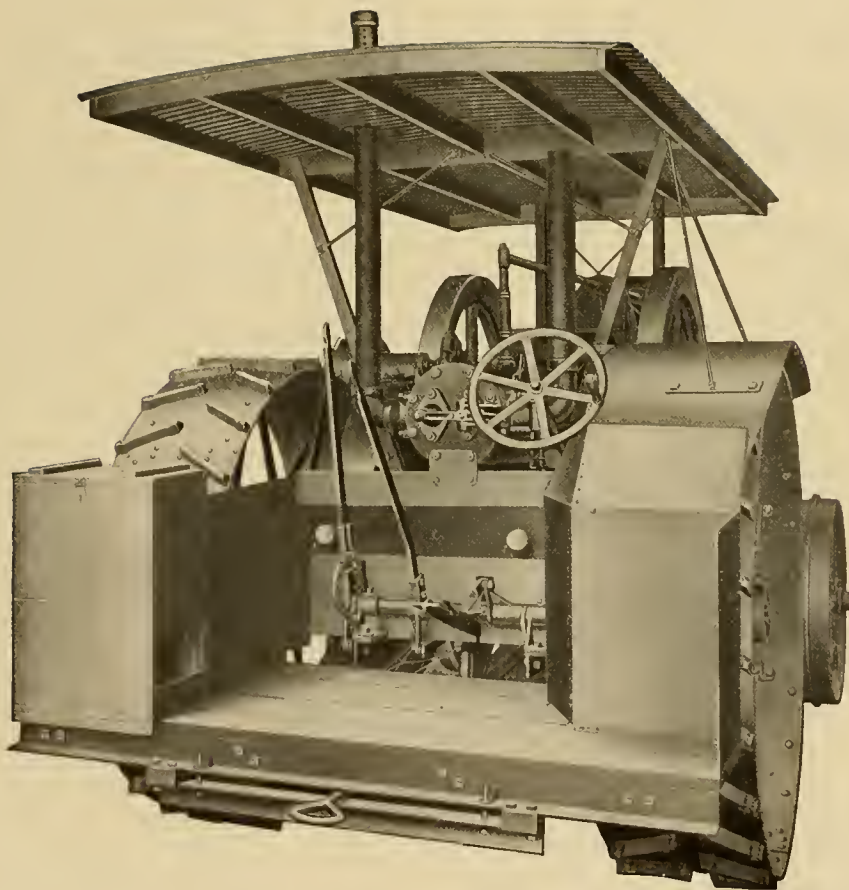
**Equipment**—Swinging draw bar, spring hitch, auto sparker, and speed changing device are part of the regular equipment.



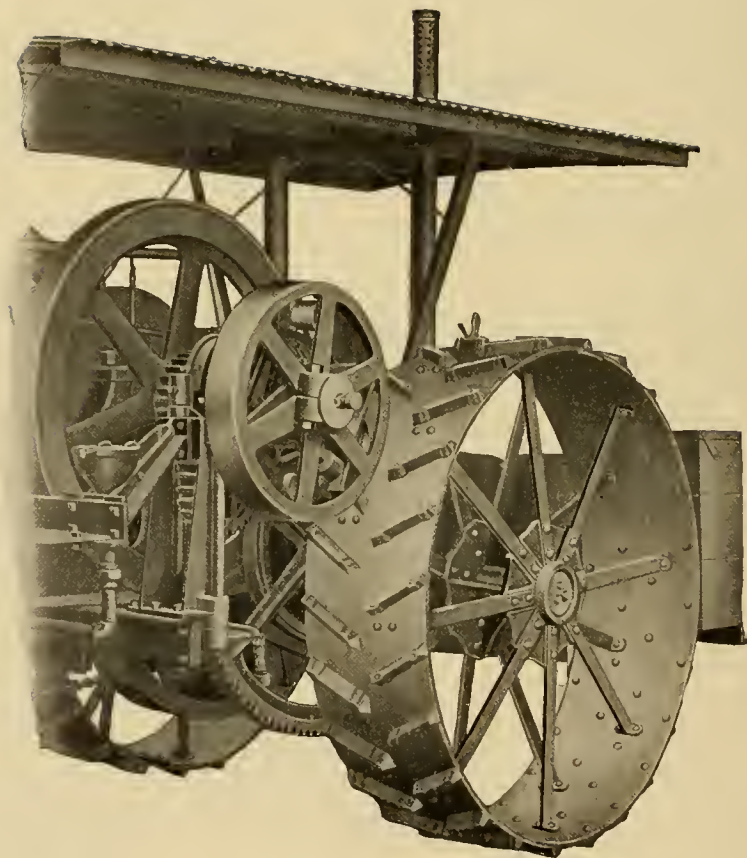
Main frame of Titan tractor showing the countershaft, the main axle, and the bearings in which the shaft and axle operate. Note the extremely substantial construction of this very important part of the tractor



**I H C Titan tractor, 20 and 25-horse power—right hand side**



Rear view of Titan tractor. Note the large, roomy platform, the two vertical levers convenient to the operator, and the steering wheel



View of Titan tractor, showing the gears, friction clutch, and filling pipe



## SPECIFICATIONS OF I H C TITAN TRACTORS

												20-Horse Power	25-Horse Power
Rated Horse-power	-	-	-	-	-	-	-	-	-	-	-	20-horse power	25-horse power
Cylinders	-	-	-	-	-	-	-	-	-	-	-		
Bore	-	-	-	-	-	-	-	-	-	-	-	8¾ inches	10 inches
Stroke	-	-	-	-	-	-	-	-	-	-	-	15 inches	15 inches
R. P. M. of Engine	-	-	-	-	-	-	-	-	-	-	-	Min. 240—Max. 290	Min. 240—Max 290
R. P. M. of Pulley	-	-	-	-	-	-	-	-	-	-	-	240 to 290	240 to 290
Pulley—Diam.—Inches	-	-	-	-	-	-	-	-	-	-	-	36 inches	36 inches
Pulley—Face—Inches	-	-	-	-	-	-	-	-	-	-	-	10½ inches	10½ inches
Drive Wheels—Diam.—Inches	-	-	-	-	-	-	-	-	-	-	-	70 inches	70 inches
Drive Wheels—Face—Inches	-	-	-	-	-	-	-	-	-	-	-	20 inches	22 inches
Front trucks—Diam. of Wheels	-	-	-	-	-	-	-	-	-	-	-	40 inches	44 inches
Total Width of Tractor	-	-	-	-	-	-	-	-	-	-	-	7 ft. 3 inches	8 ft.
Speed—Miles per Hour	-	-	-	-	-	-	-	-	-	-	-	From 1.76 to 2.12	From 1.76 to 2.12
Cap. Fuel Tank—Gallons	-	-	-	-	-	-	-	-	-	-	-	25 Gal.	37½ Gal.
Cap. Water Tank—Gallons	-	-	-	-	-	-	-	-	-	-	-	70 Gal.	95 Gal.
Net Weight (Gasol. and Water Tanks Filled)	-	-	-	-	-	-	-	-	-	-	-	14,200 lbs.	16,850 lbs.
Shipping Weight	-	-	-	-	-	-	-	-	-	-	-	13,900 lbs.	16,600 lbs.



25-horse power Titan tractor, pulling five I H C binders in a flax field on the farm of John Archie McDonald, Ft. Quapple, Saskatchewan











